Item ID:	D3391-025			Accept			S	Setup Start	
Revision ID: Item Name:	Aft Tube Asse	mbly		, beg.				Stop	
Start Date: Required Date Reference:	6/10/2011 :: 6/30/2011	Start Qty: 1.00 Req'd Qty: 1.00			Cust Item I Customer:	D:			
	Due sees Die	n: MF	Date: 1\-06-	() T1	D.		. F	Run Start	
Approvals:		ii: <u> </u>	Date:	, –		te:		Stop	
Sequence ID/ Work Center 1	î D	Operation Description		Set Up/ Run Hours	Tool ID	Tool # Plan Code	Accept Qty	Reject I	Reject Insp. Number Stamp
Draw Nbr	Rev	ision Nbr			,			* * *	
D3391	Rev	H/ DEO							
Mori Seiki - Mori Seiki CNC La	athe Large_	MORĮ SEIKI CNC LA Memo Turn as pe		0.00 0.00 : AA& Dwg D3391 Rev:	# Din	1 1/60			<u> </u>
ر خو سرید		C	batch # on fwd end at 90		Chhuli	(1/06/	16	Can.	
QC ,		QC2- Inspect parts off Memo	machine FAI/FAIB	0.00	and ulo	uli le		<u> </u>	
Quality Control				٠,		2		: 	e
QC Ouglity Control		QC8- Inspect parts - se	cond check	0.00	Se 11. 6	- 15		<u> </u>	

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W/O:			WC	ORK ORDER CHAN	NGES					
DATE	STEP	PRO	CEDURE CHA	NGÉ	By	/	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:			•					
	H(esolution:							Date:	
NCR:		V	VORK ORD	ER NON-CONFOR	MANCE (N	ICR)				
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Page 2

Friday, June 10, 2011 4:13:23 PM

Item ID: **Revision ID:** D3391-025

Accept



Setup Start



Stop

Item Name: **Start Date:**

Aft Tube Assembly 6/10/2011

Start Qty: 1.00

Reg'd Oty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Reject

Qty

Start



Required Date: 6/30/2011

OC:

SPC (Y/N):

Date:

Tool#

Plan

Code

Stop

Insp.

Stamp

Reject

Number

Sequence ID/

Work Center ID

120

HAAS 1

Operation Description

Set Up/ **Run Hours**

Date: _____

0.00

0.00

B.A 11/06/20

Accept

Qty

HAAS CNC vertical machine #1

1-Machine as per Folio FA 599 Rev: AA & Dwg D3391 Rev: H

2-Deburr

Memo

Memo

130

QC

Quality Control

QC2- Inspect parts off machine FAI/FAIB

HAAS CNC VERTICAL MACHINING #1

0.00

0.00

11/06/20

140

Quality Control

QC8- Inspect parts - second check

0.00

me uloulas

1 8

Memo

0.00

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W/O:			WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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Work Order ID 70658

Friday, June 10, 2011 4:13:23 PM



Page 3

Item ID:

D3391-025

Accept

Setup Start

Stop



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

Required Date: 6/30/2011

6/10/2011

Start Oty: 1.00

Req'd Oty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

A	p	p	r	0	v	a	l	S	:

Process Plan:

Date:

Tooling:

Date:

Run

Start

Stop



QC:

Date: ___

SPC (Y/N):

Date:

Tool # Plan

Code

Accept Qty

Reject Reject Qty Number

Insp. Stamp

Work Center ID 150

Sequence ID/

Skidtubes

Skidtubes

Operation Description

Skidtubes

Set Up/ Run Hours

0.00

0.00

Memo

1-Drill (PILOT HOLE) aft cap holes per Dwg D3391 using DT8803

160

CNC Bend 1

CNC Delta 100 Bender

Memo

BENDING MACHINE - SKIDTUBES

0.00

0.00

Form as per Dwg D3391 Using Bend Prog 3391025

H-4,33

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

11-6-22

1 0 BE11/06/22

170

Quality Control

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W/O:	;		· W	ORK ORDE	R CHANGES	3				
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Page 4

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D3391-025.

Accept



Setup Start



Stop

Revision (Da

Item Namer

Aft Tube Assembly

6/10/2011

Start Qty: 1.00

Required Date: 6/30/2011 Rea'd Otv: 1.00

Cust Item ID:

Customer:

Reference:

Start Date:

Α	D	D	rc	V	а	IS	:

Process Plan: Date: Tooling:

QC: Date: SPC (Y/N):

0.00

0.00

Date:

Date:

Run

Start Stop



Sequence ID/ Work Center ID

180

Skidtubes

Operation **Description**

Skidtubes

Set Up/ **Run Hours** Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Number Stamp

Insp.

Memo

1-Open Aft cap pilot hole to .208" as per Dwg D3391

2-Drill float bag holes using DT8809 as per Dwg D3391(Holes marked "A" Only.

3-Drill wearplate holes as per Dwg D3391 using DT8878(Mid Tube) & DT8217 Wearplate Jig .

*****Do Not Open To Finished Size****

4-Drill Wearshoe holes as per DWG D3391 using DT8939 locating from previously drilled aft wearplate holes.

5-Open wearplate holes to 0.250" and c'bore as per dwg D3391

6-Open up all wearshoe, wearplate to 0.297" and float bag holes to 0.328" as per Dwg D3391.

7-Deburr

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W/O:			WORK ORDER CHANGES										
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			Disposition: QA: N/C Closed: Date:										
NCR:	CR:		VORK ORDE	R NON-CONFORMA	ANCE (NCR)							
DATE	STEP	Description of NC			ion B		Verific	ation	Approval	Approval			
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Work Order ID 70658



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Required Date: 6/30/2011

Item ID: **Revision ID:** D3391-025

Accept



Setup Start



Stop

Item Name: **Start Date:**

6/10/2011

QC:

Aft Tube Assembly

Start Qty: 1.00 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Date: _____

Tooling: SPC (Y/N): Date:

Date:

Run

Start



Stop

Sequence ID/

Work Center ID

190

QC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours** Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

200

HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

Memo

Memo

Memo

0.00

0.00

210

Quality Control

QC3-Inspect Part Finish

0.00

0.00

- Oh nlow/23

W/O:	:		W	ES				٠.	,	
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Work Order ID 70658

Friday, June 10, 2011 4:13:23 PM



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Item ID:

D3391-025

6/10/2011

Accept

Setup Start



Revision ID:

Item Name:

Aft Tube Assembly

Cust Item ID:

Customer:

Start Date:

Required Date: 6/30/2011

Start Qty: 1.00 Reg'd Qty: 1.00

Reference:

Approvals:

Process Plan: _____ Date: ____

Tooling:

Set Up/

0.00

0.00

Run Hours

Date:

Date:

Run

Start

Stop

Stop



QC:

Operation

Description

Date: _____ SPC (Y/N):

Tool ID

Tool # Plan Code

Accept Qty

Reject Reject Qty

Insp. Number Stamp

220

Sequence ID/

Work Center ID

Skidtubes

Skidtubes

Skidtubes

Memo

Instal spacers as per dwg D3391

A/R Magnabond 6398 Batch: M116945 exp. date 7 12/01/15 cure time 12hrs as per QS10015

230

Quality Control

QC5- Inspect part completeness to step on W/O

Dulo4/2x

235

HandFinish Hand Finishing Pressure Wash per QSI005 4.3

Memo

0.00

Memo

0.00

AND REALODINE AS PER PAR09-043

1X & mf 11/06/27

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W/O:			V	ORK ORDER CHANGE	S			
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Friday, June 10, 2011 4:13:23 PM

Item ID:

D3391-025

Accept



Setup Start

Stop



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

Required Date: 6/30/2011

6/10/2011

QC:

Start Oty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: Date:

Date: _____

Tooling: SPC (Y/N): Date:

Tool ID

Date:

Tool # Plan

Code

Run

Accept

Qty

Start



Stop

Reject

Qty



Number Stamp

Insp.

Reject

Sequence ID/

Work Center ID

240

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

OVEN TEMPERATURE: FINISH TIME:

START TIME:

Set Up/ **Run Hours**

0.00

250

QC

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

HI ulocales

260

HandFinish

Hand Finishing

HandFinishing

Memo

-Install inserts as per Dwg D3391 2-Install Aft Cap as per Dwg D3391 A/R Sikaflex-241/-291 1/1175/6 Sikaflex expiry date: 15-01

1 d H ulocles

0.00

0.00

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W/O:		WORK ORDER CHANGES								
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Work Order ID 70658

Friday, June 10, 2011 4:13:23 PM



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Item ID:

D3391-025

Accept

Setup Start



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

6/10/2011

Start Qty: 1.00

Req'd Oty: 1.00



Cust Item ID:

Customer:

Tool ID

0.00 D412-742-043/13706d3

Reference:

Approvals:

Process Plan: Date:

Tooling:

Date:

Run

Start

Stop

Stop



Sequence ID/

Work Center ID

Required Date: 6/30/2011

QC:

Date: _____

SPC (Y/N):

Set Up/

Date:

Tool # Plan

Code

Accept

Qty

Reject Qty

Insp. Reject Number Stamp

270

QC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Run Hours

0.00

0.00 8 Wolfs

Memo

Packaging

Packaging

Identify as per dwg & Stock Location: U O

0.00

290

280

Quality Control

QC21- Final Inspection - Work Order Release

0.00

MV 11-06-29

Memo

Memo

0.00

- a	oopaot								
W/O:		'A 'V		ORK ORDER CHANGES					
DATE	STEP		EDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Picklist Print

Friday, June 10, 2011 4:13:20 PM

Work Order ID: 70658

Parent Item:

D3391-025

Parent Item Name: Aft Tube Assembly



Start Date: 6/10/2011

Start Qty: 1.00

Required Date: 6/30/2011

Page 1

Required Qty: 1.00

Comments:

IPP Rev B 06-02-07

IPP Rev:C

06-03-28

ECN773 dwg rev. D EC Update Manuf. Instructions JLM 🗆 🗆 🗆

EC

IPP rev D 07.03.20 IPP rev E

07.11.07

revF dwg rev G dwg ecn 1053p EC verified by: DD

DD verified by: EC

ECN 1056 IPP Rev:F 07-11-13 IPP Rev:G 08-09-10 revH as per dwg DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6014-090		Manufactured	No			100	Each	3.0000	1	1	ą.		
				Location		Loc	<u>Oty</u>	Loc Code					
D3670-4-200	ı	Manufactured	No	LG (/ 56572	230	3 3 Each	31.0000	4	4	- - M	m.l	1/06/16
				Location		Loc	<u>Oty</u>	Loc Code					11/06
D2646		Manufactured	No		68950 70822)	270	31 31 Each	24.0000		4 1 HI	1106	20	٠ (
Aft Cap				Location		<u>Loc (</u>	Otv	Loc Code					
				FP006		2500	23	200 0000					· e
					62678		23		_	11	_		

FP-4 69019

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W/O:		WORK ORDER CHANGES									
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Picklist Print

Friday, June 10, 2011 4:13:20 PM

Page 2

Work Order ID: 70658 Parent Item: D3391-025 Parent Item Name: Aft Tube Assembly Start Date: 6/10/2011 **Required Date: 6/30/2011** Start Oty: 1.00 Required Qty: 1.00 D3537-1 Manufactured No 270 Each 51.0000 Wearpad Location Loc Qty Loc Code FP017 51 1369278 69817 51 D3537-7 270 Each 1.0000 Manufactured No Ml 1106/28 Wearpad Location Loc Oty Loc Code FP017 1364**320** 65146 ì D3553-1 13.0000 Manufactured No 270 Each 11/06/28. Gasket Loc Code Location Loc Qty FP013 13 56568 13 D3553-3 Manufactured No 270 Each 37.0000 Gasket Location Loc Oty Loc Code FP 20 31631 20 FP013 17 53480 17

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Friday, June 10, 2011 4:13:20 PM

Work Order ID: 70658 D3391-025 Parent Item: Parent Item Name: Aft Tube Assembly **Start Date:** 6/10/2011 **Required Date: 6/30/2011** Start Qty: 1.00 Required Qty: 1.00 D3672-1 270 1,176.000 Manufactured No Each H 1106/28 Phenolic Washer Loc Qty Location Loc Code ST074 1150 <u>6417</u>7 650 66821 500 ST077 26 52505 26 ALS4-1032-130 Purchased 260 Each 1,634.000 No 14. ul 0 6(2f Insert Location Loc Qty Loc Code ST281 117331 8 ST282 1626 1626 117717 ALS4-1032-225 Purchased No 270 Each 1,239.000 12 12 Insert Location Loc Qty Loc Code ST282 1239 110768 439 117717 800 XIZ

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Friday, June 10, 2011 4:13:21 PM

Work Order ID: 70658

Parent Item:

D3391-025

Parent Item Name: Aft Tube Assembly



Start Date: 6/10/2011

Required Date: 6/30/2011

Start Qty: 1.00

Required Qty: 1.00

ulo6/20

AN3C4A

Purchased

Purchased

No

No

270

270

Each

1,929.000

1,761.000

Jul moce128

BOLT

Location	Loc Qty	Loc Code	
ST350	1929		
117094	427	1118112	X (c
117313	2		
117688	800		
117795	500		
117872	200		

AN3C5A



Bolt

Loc Oty	Loc Code	

Each

<u>Location</u>	Lo	c Qty	Loc Code		
FP-A		7			
115835		7			
ST350		1754			
116419		100			
116549		54			
117343		500			
117508		300			
117764		300			
1 <u>17872</u>		500			X 4
	270	Each	0.0000	10	10

AN960C10L

NAS1149C0332 Purchased

No



85/00/12 M (00x) MIIII F88 FII M

washer

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W/O:			W	ORK ORDE	ER CHANGE	ES	-			······································	
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Part No	•	;* PAR #:	_ Fault Cat	egory:		NCF	R: Yes N	lo DQA:		_ Date: _	*
	R	esolution:	_ Dispositi	on:		QA:	N/C Clo	sed:		Date:	
NCR:		, • W	ORK OR		ONFORMA	NCE	(NCR)			- ` .	
DATE	STEP	Description of NC	In this I	Corrective A		tion B Sign &		Verification		Approval	Approval
		Section A	Initial Chief Eng	Action	Description Chief Eng		Date	Section C		Chief Eng	QC Inspector
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DART AEROSPACE LTD	Work Order:	76658
Description: Float Skidtube (412)	Part Number:	D3391-3
Inspection Dwg: D3391 Rev. H		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X	First Article		Prototype
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	-					
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Lathe Section						
14.000	+/-0.010	14.000			Tope	mm.1-02.
3.500	+/-0.010	3.50	V		vern	JF-01 1
88.93	+/-0.030	88.93			tare	mm.1-02
44.995	+/-0.030	44.995			tape	mm, L-02
Ø3.200	+/-0.010	3.200			mirc	CNC-05
88.93	+/-0.030	88.93	V,		tope	MM.1-02
Ø3.750	+/-0.010	3.750			mice	CNC-05
30° x 160″ <i>c6c</i> chamfer	+/-0.010	30° X.060			/(4

Measured by: Market Date: 11/0/// Date: 11.6.16

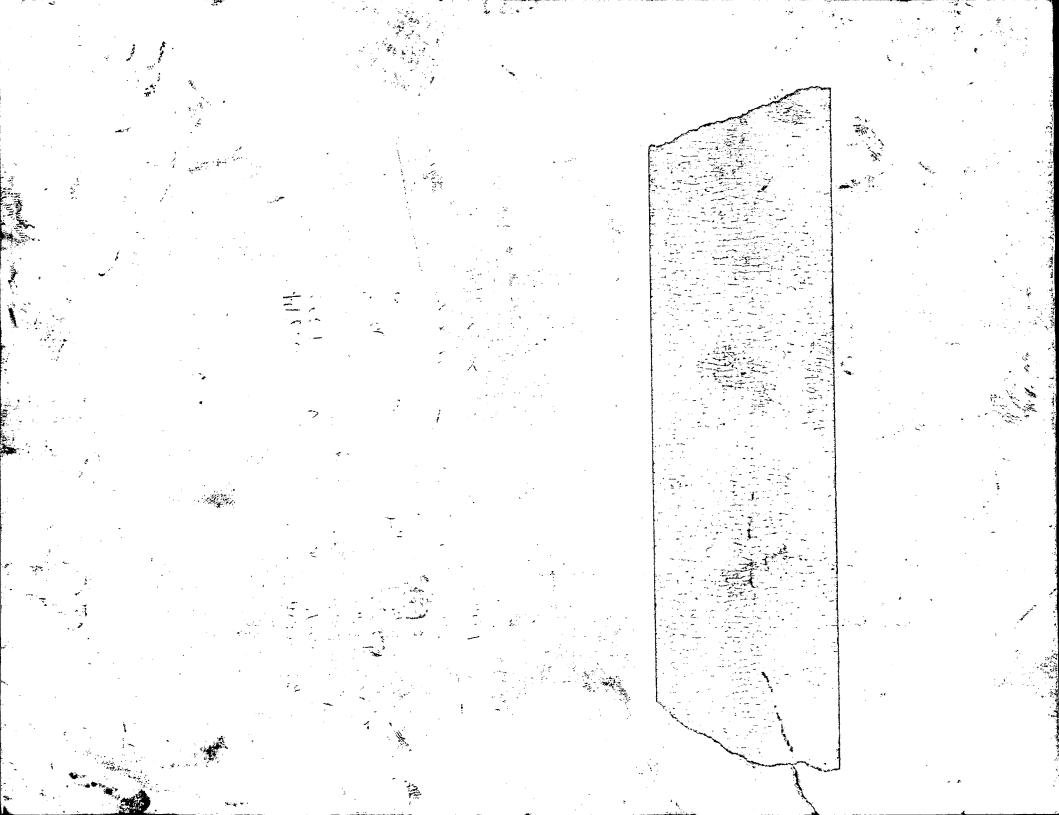
HAAS Section							
1.526	+0.000/-0.030	1.510	~	Vein.	GA-01		
7.500	+/-0.010	7.500		Vero	CNC-02		
27.750	+/-0.010	27.750		TARE	GA-12		
31.750	+/-0.010	31, 750		ſį,			
35.250	+/-0.010	35.250	1	0 %	(1		
3.300	+/-0.010	3.296	-	Ven	GA-01		
0.200	+/-0.010	0.201	~	μĠ	c)		
3.520	+/-0.010	3.519	~	Mic	GA-10		
0.687	+0.010/-0.000	0.690	~	Vern	GA-01		
R0.062	+/-0.010	RO.063	-	R-6.	ref.		
Ø0.484	+0.005/-0.001	\$0.488	~ ~	- Herr	GA-01		

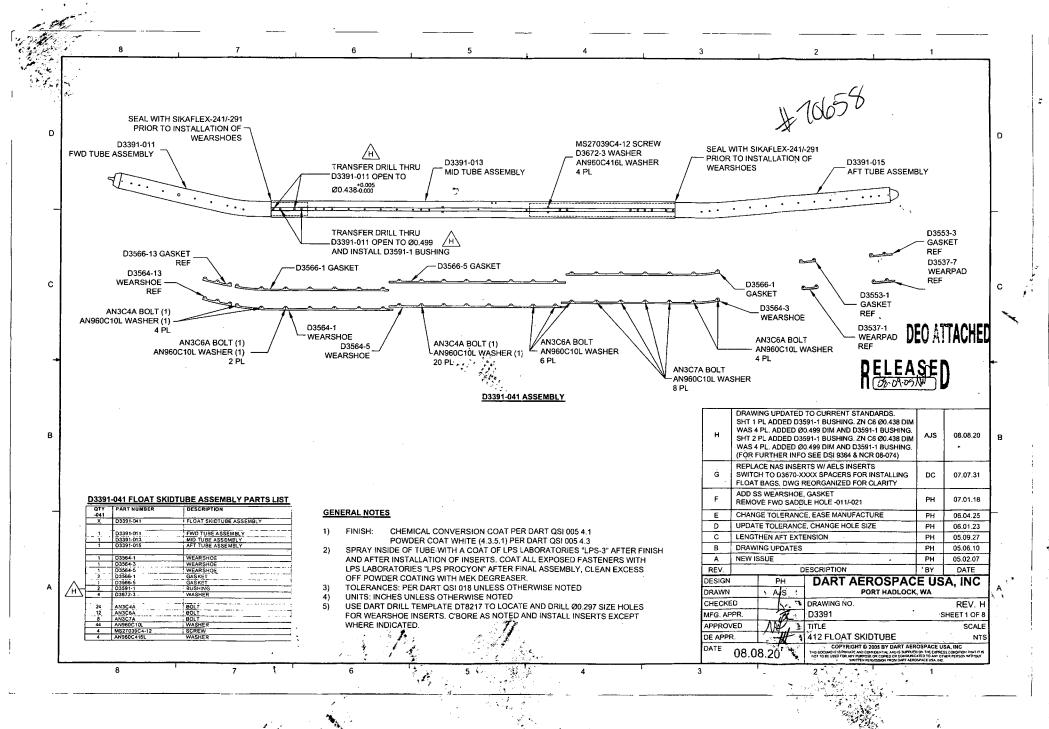
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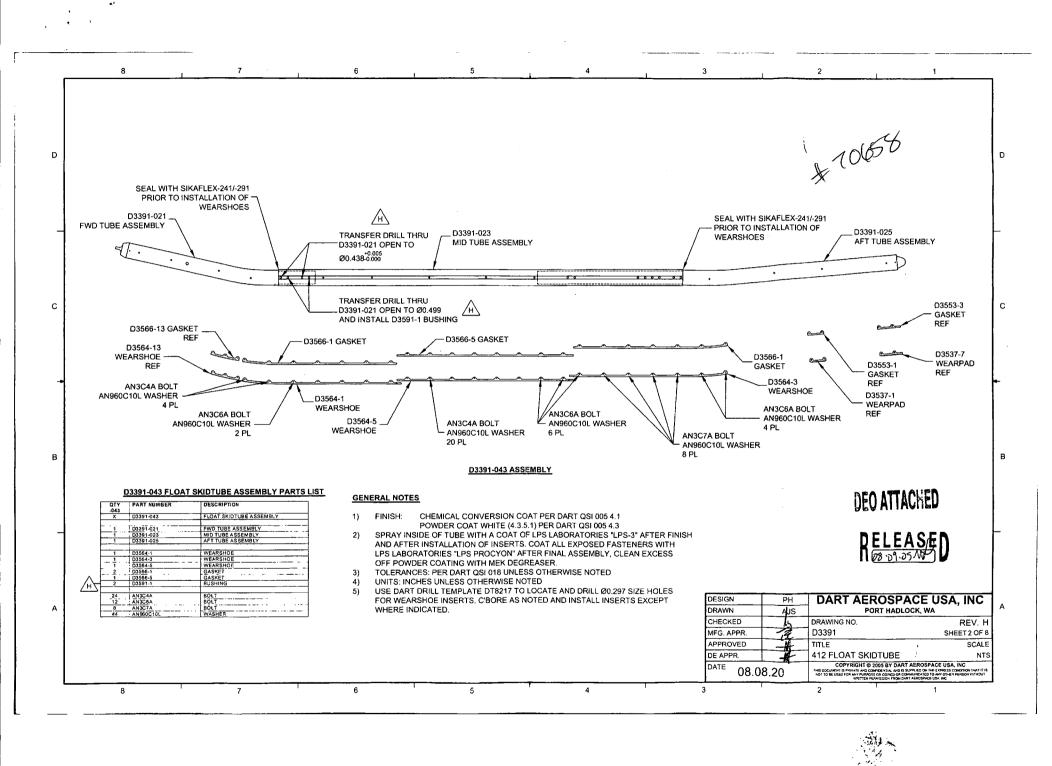
Audited by: Date: 1/06/22

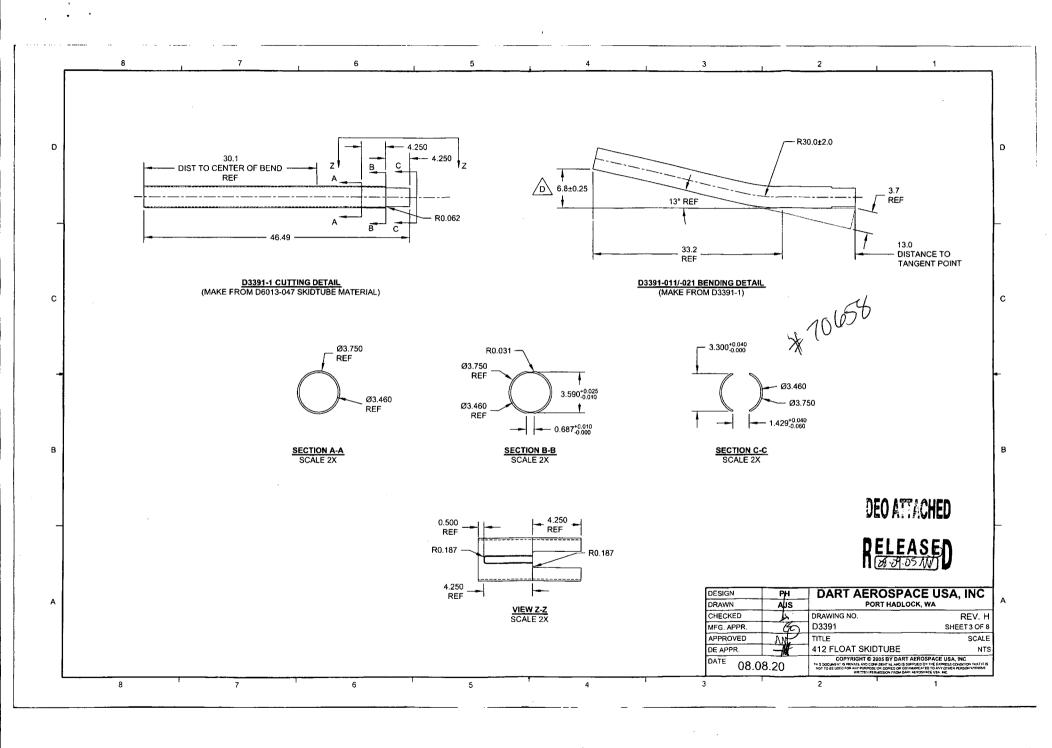
Rev	Date	Change	Revised by	Approved
Α	06.04.24	New Issue P/O D3391-015/-025	KJ/JLM	
В	06.06.19	Dwg revision update	KJ/JLM	
С	07.04.20	Ø0.208 dimension removed	KJ/JLM	
D	07.09.06	0.400 dimension removed	KJ/JLM	
E	07.11.23	Dwg Rev. updated	KJ/EC/DD	
F	09.04.27	Dimensions updated per Rev H and NCR09-028	KJ/JLM L	
G	09.11.16	Dimension 0.200 removed	KJ 🕏	ΔΛ

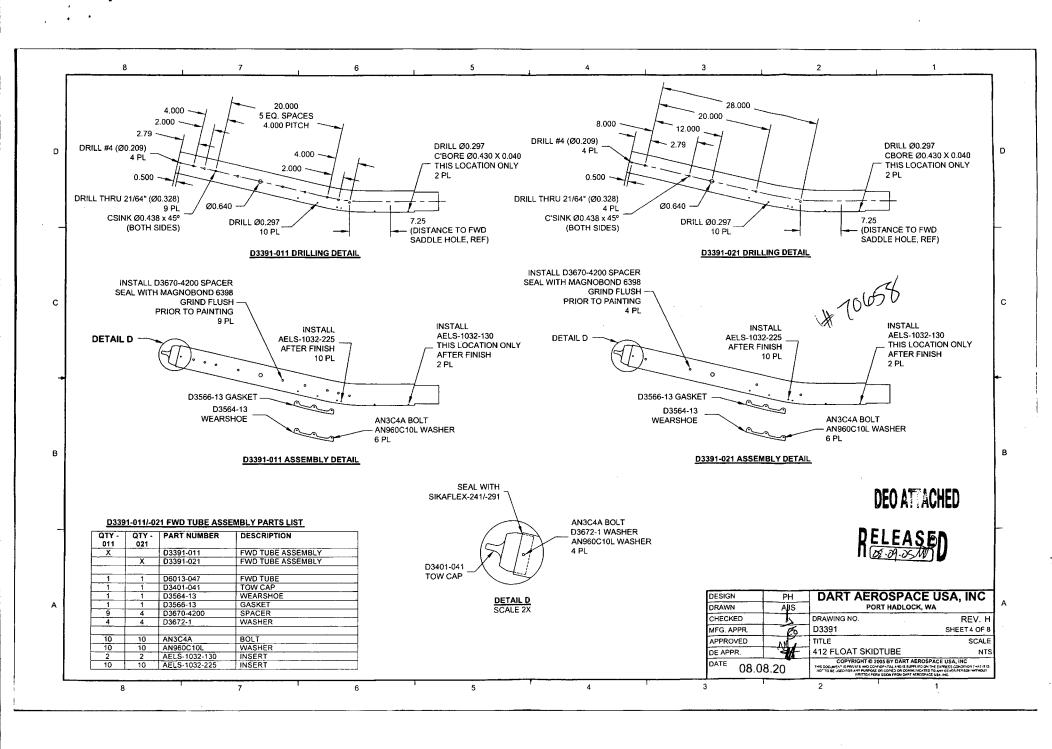
His



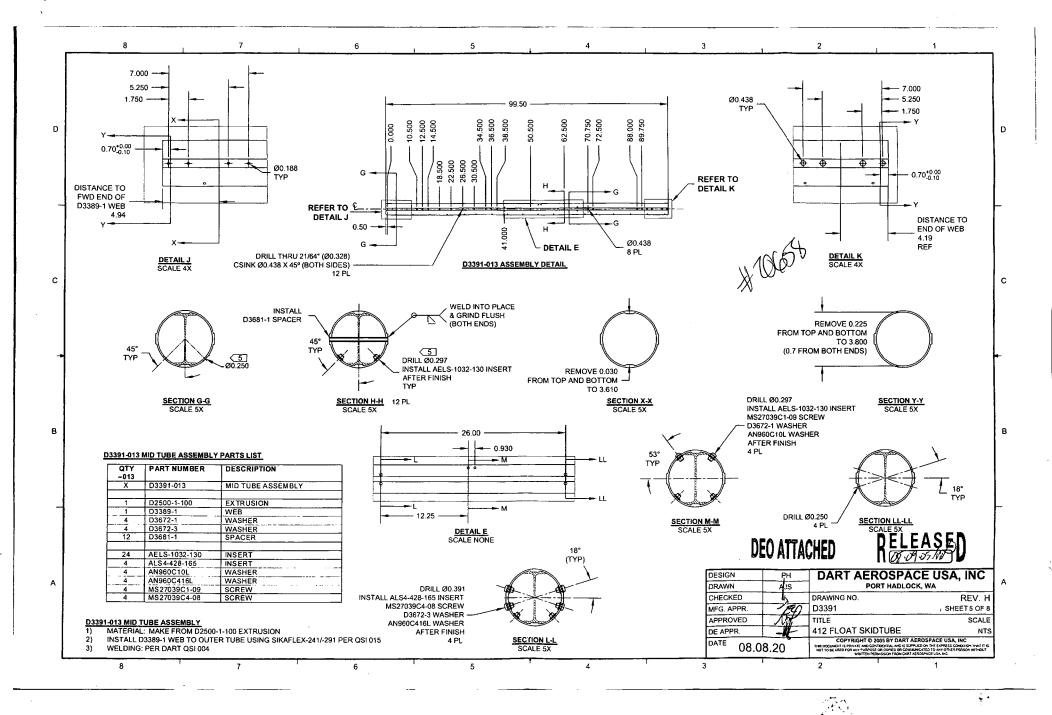


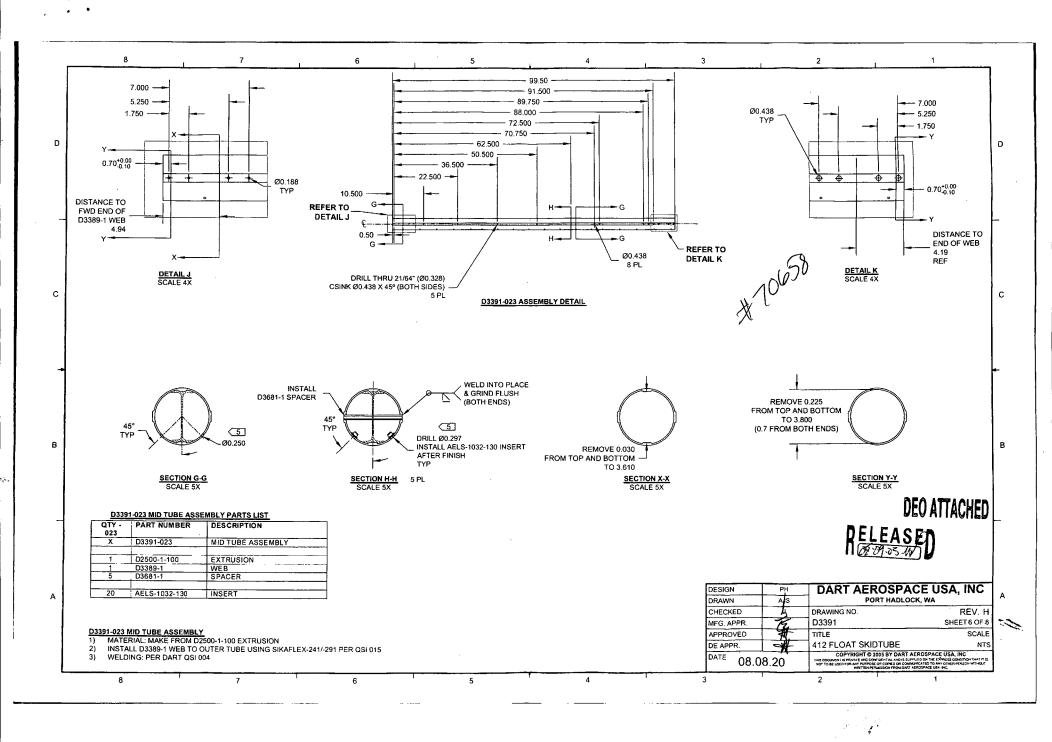


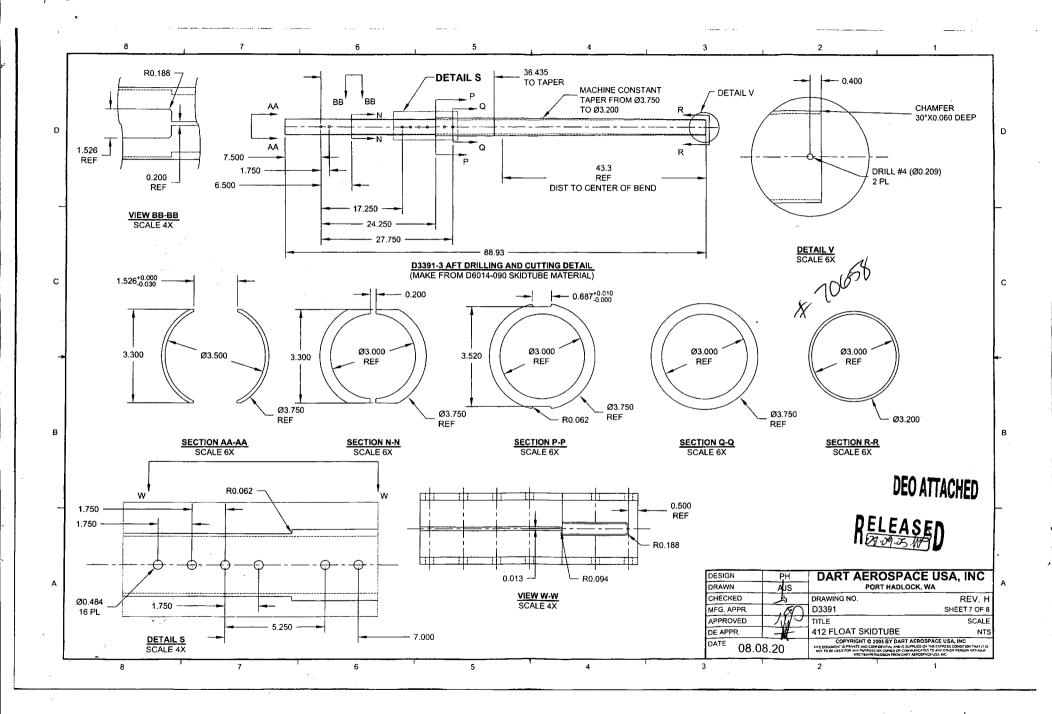


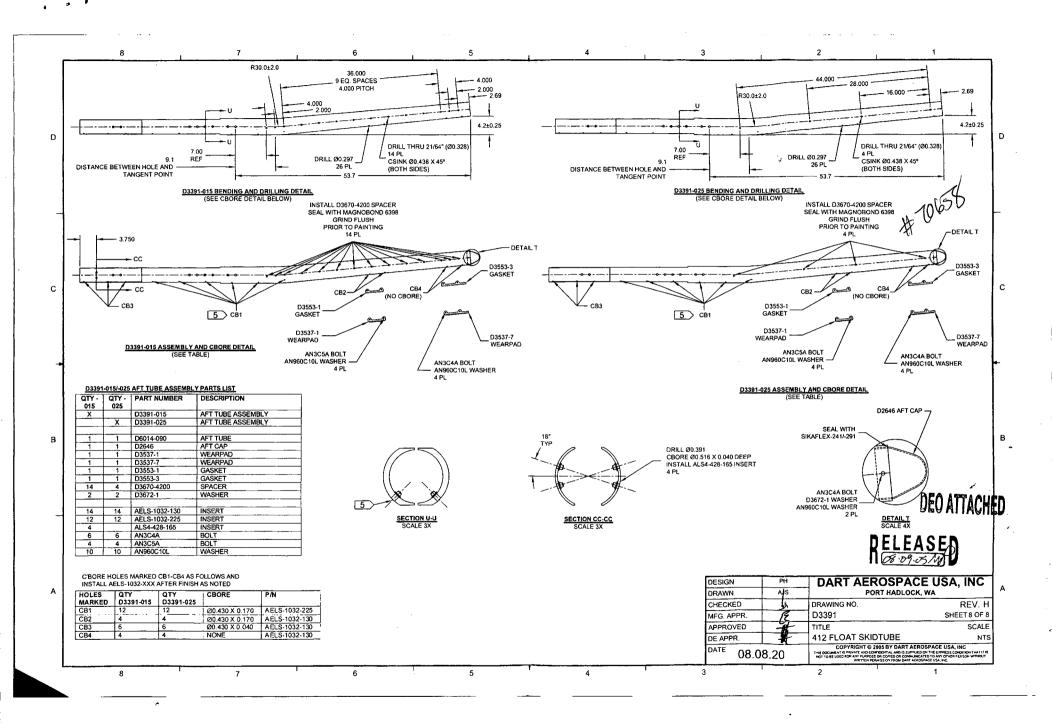


fine.









DRAWING N	O.	TITLE		REV. H D	ART AEROSPACE USA, II	VC D.E.O. NO.	SHEET NO.	SCALE
D3391		412 FLOAT	SKIDTUBE	, 1	ENGINEERING ORDER	D3391-H-1	SHEET 1 OF, 1	NTS
DRAWN	G/)	CHECKED	li li	MFG. APPR.	APPROVED MA	DE APPR.	
DATE	09.09.	23	DATE	04.04.24	DATE 09/09/25	DATE 09/09/30	DATE 09/09/3	.

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH—AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.



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